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(71) Applicant (for all designated States except US): **SAAB AB**
[SE/SE]; S-581 88 Linköping (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **OPPERMAN, Ian**
[FI/FI]; Tutkijantie 2E, Linnanmaa, FIN-Oulu (FI).

(74) Agents: **WHLSSON, Joakim** et al.; Bjerkéns Patentbyrå
KB, Östermalmsg. 58, S-114 50 Stockholm (SE).

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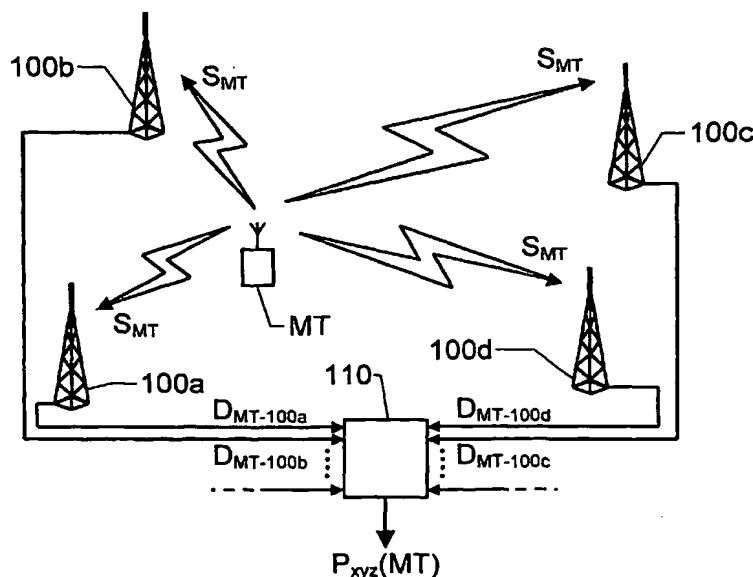
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ning of each regular issue of the PCT Gazette.

(54) Title: RADIO SIGNAL POSITIONING



(57) Abstract: The present invention relates to positioning of a mobile signal transmitter (MT), wherein a respective distance ($D_{MT-100a}$ - $D_{MT-100d}$) between the transmitter (MT) and each of a plurality of sensors (100a-100d) is determined based on a direct sequence spread spectrum signal (S_{MT}). A transmitter delay of the signal (S_{MT}) is estimated with high accuracy by, in each sensor (100a-100d), cross-correlating an over-sampled representation of the signal (S_{MT}) with an appropriate local spreading sequence (S_{PP}), which contains poly-phased symbol values being different from a set of symbols in the direct sequence used to spread the transmitted signal (S_{MT}). The local spreading sequence (S_{PP}) has a nominal chip period, which is equivalent to the chip period of the over-sampled representation of the signal (S_{MT}).